Page 25 of 49

Project	WAG-5	F\$	COS	ŧΤ	ES1	IM/	ATE

SOIL SITES: ARA-01, ARA-12, ARA-16, ARA-23, PBF-16, ARA-25

Type of Est. Planning

File No. 4951-4

Date

01/05/99

ALTERNATIVE 4A - REMOVAL AND DISPOSAL

AT INEEL

ACCT.	DESCRIPTION	E,V,	MAT'L	MAT'L UT.	UNIT LAB.	TOTAL	LABOR	LABOR	MAT'L	OTHER	TOTAL
NO.		P,H	UNIT	COST	HRS	LAB, HRS.	RATE	COST	COST	COST	COST
	RA Document Preparation (cont)										
	Packaging, Shipping, Transportation Documents	tion									
	Sampling and Analysis		1 fte		240	240	75	18,000			18,000
	Hazard Classification		1 fte	<u> </u>	200	200	75	15,000			15,000
	Selection and Procurement of Packaging		1 fte	<u>j</u>	200	200	75	15,000			15,000
	Packaging, Shipping, Transportation Documents	tion Co	st								48,000
	Remedial Action Report										
	RA Report Preparation		1 fte		320	320	75	24,000			24,000
	Reviews and Comment Resolution		1 fte	_	320	320	75	24,000			24,000
	RA Report Cost										48,000
	WAG-Wide RA 5 Yr. Review - (Cost Includes (1) I	TE For	(1) yr for the ir	itial Review							
	RA Report Preparation		1 yr		1,440	1,440	75	108,000			108,000
	Reviews and Comment Resolution		1 yr		440	440	75	33,000			33,000
	WAG-Wide RA 5 Yr. Reviews For 100 Years										141,000
	RD Document Preparation										
	Safety Analysis Documentation (ASA & HSP)										
	Auditable Safety Analysis/Hazs. Classification		2 fte		160	320	75	24,000			24,000
	Unresolved Safety Questions		2 fte		160	320	75	24,000			24,000
	Quality Assurance		1 fte		30	30	75	2,250			2,250
	Review and Comment Resolution	<u> </u>	2 fte		335	670	75	50,250			50,250
	Safety Analysis Documentation Cost										100,500
	Sampling and Analysis Plan	1									
	Preliminary Scoping		1 fte		320	320	75	24,000			24,000
	Field Sampling Plan Preparation		1 fte		400	400	75	30,000			30,000
	Reviews and Comment Resolution		1 fte		720	720	75	54,000			54,000
	Sampling and Analysis Plan Cost										108,000

Page 26 of 49

Project	WAG-5 FS COST ESTIMATES

SOIL SITES: ARA-01, ARA-12, ARA-16, ARA-23, PBF-16, ARA-25 Type of Est. Planning File No. 4951-4 Date 01/05/99

ALTERNATIVE 4A - REMOVAL AND DISPOSAL

AT INEEL

DESCRIPTION	E,V,	MAT'L	MAT'L UT.	UNIT LAB.	TOTAL	LABOR	LABOR	MAT'L	OTHER	TOTAL
	PH	UNIT	COST	HRS	LAB. HRS.	RATE	cost	COST	COST	COST
 RD Document Preparation (continued)										
Pre-Final Inspection Report										
Checklist Preparation		1 fte		40	40	75	3,000			3,000
Reviews and Comment Resolution		1 fte		60	60	75	4,500			4,500
 Pre-Final Inspection Report Cost										7,500
 Remedial Design			^ _							
 initial Review of Deed Restrictions with Governing Be	odies an							32,000		32,00
 Legal Attorney and Env. Affairs at \$32K ea.		1 ea	32,000					32,000		32,00
Deed Restrictions Cost	T 1								-	32,00
 	+ +									
	+ +									
Title Design Construction Document Package; Conta	minated	Soils Excavat	ion. Handiing.	and On-Site	Disposal			· · · · · · · · · · · · · · · · · · ·		
Remedial Design Workplan		1 fte		320	320	75	24,000			24,00
 Siting and Surveying	1 1	3 fte		40	120	40	4,800			4,80
 Final Design Construction Document Package		12 dwgs	3,500		-			42,000		42,00
Total Title Design Package										70,80
Site Characterization - Including: Sample Collection I	 Materials	/Labor, Shippi	ing, SMO TOS	Preparation :	& Analysis Re	porting, ERIS	Quality Report	ing		
 Assume a Total Allowance of 100 Samples for all Sites		100 smpls	1,000	4	400	75	30,000	100,000	500	130,50
								•	(Materials)	•
Repository WAC Sampling/Analysis: Assume		408 smpls	2,500	4	1,632	75	122,400	1,020,000		1,142,40
(1) sample per 100 cy		•								
 Site Characterization - Total Cost										1,272,90
				•		!				

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Page 27 of 49

Project	WAG-5 FS COST ESTIMATES

SOIL SITES: ARA-01, ARA-12, ARA-16, ARA-23, PBF-16, ARA-25

ALTERNATIVE 4A - REMOVAL AND DISPOSAL

AT INEEL

 Type of Est.
 Planning
 File No.
 4951-4
 Date
 01/05/99

ACCT.	DESCRIPTION	E,V,	MAT'L	MAT'L UT.	UNIT LAB.	TOTAL	LABOR	LABOR	MAT'L	OTHER	TOTAL	
NO.		P,H	UNIT	COST	HRS	LAB. HRS.	RATE	COST	COST	COST	COST	
	Remedial Action - Construction Subcontract; Contaminated Solls Excavation, Handling, and On-Site Disposal											
	Mobilization to Job Site		1 ls		24	24	350	8,400			8,400	
	Machine Excavate for Waste Removal		50,750 cy		0.1	5,075	350	1,776,250	·		1,776,250	
	Hand Excavate Soils around existing		250 cy		3	750	65	48,750			48,750	
·	foundations	<u> </u>										
	Manual Separation of Vegetation	<u> </u>	10,200 cy		0.12	1,224	32	39,168		Equip. Rental	39,168	
	Size Vegetation (Assume Open Air Chipper)		10,200 cy		0.25	2,550	32	81,600		20,000	101,600	
	Box & Ship to WERF (Assume 90% Reduction)		1,020 cy	30	0.20	204	150	30,600	30,600		61,200	
	Contour and Shape Excavated Areas		60 acres	1,500					90,000		90,000	
	Haul Soils to ICPP Repository (10 cy/load)		4,080 loads		2	8,160	55	448,800			448,800	
	Vegetate Cover	<u> </u>	60 acre	2,000					120,000		120,000	
-	Equipment Cleanup and Demob.		1 ls	5,000	40	40	350	14,000	5,000		19,000	
	Total Subcontractor Directs										2,713,168	
	Subcontractor Overhead and Profit @ 30%										813,950	
	Total Subcontractor Directs and Indirects										3,527,118	
	Procurement Fees and G&A at Current Business Practices								·		670,152	
	Total Subcontractor Costs					•					4,197,271	
	Onsite ICPP Soil Repository Disposal Cost		40,800 cy	104					4,243,200		4,243,200	
	Total Cost										8,440,471	
		<u> </u>										
	Project/Construction Management; Contaminated So	ile Exc	avation, Handilr	ig, and On-Sit	e Disposal						705,424	
···		<u> </u>								ļ .		
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Page 28 of 49

Project	WAG-5

WAG-6 FS COST ESTIMATES						
SOIL SITES: ARA-01, ARA-12, ARA-16, ARA-23, PBF-16, ARA-25	Type of Est.	Planning	File No.	4951-4	Date	01/05/99
ALTERNATIVE 4A - REMOVAL AND DISPOSAL	į.					
AT INFE						

CT.	DESCRIPTION	E,V,	MAT'L	MAT'L UT.	UNIT/LAB.	TOTAL	LABOR	LABOR	MAT'L	OTHER	TOTAL
<u>O.</u>		P.H	UNIT	COST	HRS	LAB. HRS.	RATE	COST	COST	COST	COST
	Remedial Action - Operations (100 Year Duration)										
	Program Management										
	Coordination/Oversight of Technical Support										NA
. .	Coordination with Agency Participants							•			NA
	Cost and Schedule Control										NA
	Ensure Compliance of Gov't Regulation										NA
	Reviews										NA
	Audit Preparation and Coordination							•			NA
	Annual Operations & Maintenance Reports										NA
	Total Cost (Per Year)										NA
	Program Management Costs - 100 Year Duration										NA
	WAG-Wide RA 5 Yr. Review - (Costs are Assumed	d as Par	t of the Onsite	Repository Ac	ceptance Fee)S)					
	RA Report Preparation		N/A								NA
	Reviews and Comment Resolution		N/A								NA
	WAG-Wide RA 5 Yr. Reviews For 100 Years										NA
	Remediai Design										
	Added Institutional Controls					-					
	Legal Attorney and Env. Affairs at \$32K ea.		N/A				· · · · · · · · · · · · · · · · · · ·				NA
	Total Added institutional Controls - 100 Year Duration	n									NA
										Ī	
	Caretaker/Maintenance						<u> </u>				
	Caretaker		N/A								N/A
	Fencing Maintenance		N/A								N/A
	Materials and Repair		N/A				-				N/A
	Caretaker/Maintenance Cost Per Year										N/A

Page 29 of 49

	Project	WAG-5 FS COST ESTIMATES
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SOIL SITES: ARA-01, ARA-12, ARA-16, ARA-23, PBF-16, ARA-25 Type of Est. Planning File No. 4951-4 Date 01/05/99

ALTERNATIVE 4A - REMOVAL AND DISPOSAL

AT INEEL

ACCT.	DESCRIPTION	E,V,	MAT'L	MAT'L UT.	UNIT/LAB.	TOTAL	LABOR	LABOR	MAT'L	OTHER	TOTAL
NO.		P,H	UNIT	COST	HR\$	LAB. HRS.	RATE	COST	COST	COST	COST
	Operations, Maintenance, Materials and Disposal										N/A
		<u> </u>							ļ		<u> </u>
	D&D of Facilities	1								ļ <u></u>	N/A
		1 1								1	
	Surveillance and Monitoring	-							ļ		N/A
										 	
				<u> </u>			<u> </u>				
										 	
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Page 30 of 49

Project	WAG-5 FS COST ESTIMAT	res

SOIL SITES: ARA-01, ARA-12, ARA-16, ARA-23, PBF-16, ARA-25 Type of Est. Planning File No. 4951-4 Date 01/05/99

ALTERNATIVE 4B - REMOVAL AND DISPOSAL

OFF INEEL

ACCT.	DESCRIPTION	E,V,	MAT'L	MAT'LUT.	UNIT/LAB.	TOTAL	LABOR	LABOR	MAT'L	OTHER	TOTAL
NO.		P,H	UNIT	COST	HRS	LAB, HRS.	RATE	COST	COST	COST	COST
	FFA/CO Management and Oversight			·							
	Program Management										
	Coordination/Oversight of Technical Support		1 fte		640	640	75	48,000			48,000
	Coordination with Agency Participants	<u> </u>	1 fte		320	320	75	24,000			24,000
	Cost and Schedule Control		1 fte		320	320	65	20,800			20,800
	Ensure Compliance of Gov't Regulation		1 fte		160	160	70	11,200			11,200
	Quarterly and Yearly Reviews		1 fte		160	160	65	10,400			10,400
	Audit Preparation and Coordination		1 fte		160	160	65	10,400			10,400
	Total Cost (Per Year)										124,800
	Total Cost (Per Year Rounded)			,	·						125,000
	Program Management - 3 Year Duration		3 yr	125,000					375,000		375,000
	RA Document Preparation										
	RD/RA SOW	1 1									
	PreDesign Studies/Pretiminary Scoping		3 fte		80	240	75	18,000			18,000
	Design Criteria		1 fte		40	40	75	3,000			3,000
	RD/RA Document Preparation		1 fte		80	80	75	6,000			6,000
	Reviews and Comment Resolution		1 fte		360	360	75	27,000			27,000
	RD/RA SOW Cost										54,000
	RA Workplan										1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1
	Preliminary Scoping		1 fte		160	160	75	12,000			12,000
	RD/RA Document Preparation		1 fte		260	260	75	19,500			19,500
	Reviews and Comment Resolution	<u> </u>	1 fte		420	420	75	31,500			31,500
	RA Workplan Cost	-									63,000
		-									VP.

Page 31 of 49

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WAG-5 FS COST ESTIMATES

SOIL SITES: ARA-01, ARA-12, ARA-16, ARA-23, PBF-16, ARA-25

Type of Est.

Planning

File No.

4951-4

Date

01/05/99

ALTERNATIVE 4B - REMOVAL AND DISPOSAL
OFF INEEL

ACCT.	DESCRIPTION	E,V,	MAT'L.	MAT'L UT.	UNIT/LAB.	TOTAL	LABOR	LABOR	MAT'L	OTHER	TOTAL
NO.		P,H	UNIT	COST	HRS	LAB. HRS.	RATE	COST	COST	COST	COST
	RA Document Preparation (cont)										
	Packaging, Shipping, Transportation Documer	ntation			,						
	Sampling and Analysis		1 fte		240	240	75	18,000			18,000
	Hazard Classification		1 fte		200	200	75	15,000			15,000
	Selection and Procurement of Packaging		1 fte		200	200	75	15,000		<u> </u>	15,000
	Packaging, Shipping, Transportation Document	ntation Cos	st .								48,000
	Remedial Action Report										
	RA Report Preparation		1 fte		320	320	75	24,000			24,000
	Reviews and Comment Resolution		1 fte		320	320	75	24,000			24,000
	RA Report Cost										48,000
	WAG-Wide RA 5 Yr. Review - (Cost includes (1) FTE For (1) yr for the ir	itial Review							
	RA Report Preparation		1 yr		1,440	1,440	75	108,000			108,000
	Reviews and Comment Resolution		1 yr		440	440	75	33,000			33,000
	WAG-Wide RA 5 Yr. Reviews					.,					141,000
	RD Document Preparation										
	Safety Analysis Documentation (ASA & HSP)										
	Auditable Safety Analysis/Hazards Classificat	ion	2 fte		160	320	75	24,000			24,000
	Unresolved Safety Questions		2 fte		160	320	75	24,000			24,000
	Quality Assurance		1 fte		30	30	75	2,250			2,250
	Review and Comments Resolution		2 fte		335	670	75	50,250			50,250
	Safety Analysis Documentation Cost					*				-	100,500
	Sampling and Analysis Plan								· · · · · · · · · · · · · · · · · · ·		
	Pretiminary Scoping		1 fte	ļ	320	320	75	24,000			24,000
	Field Sampling Plan Preparation		1 fte		400	400	75	30,000			30,000
	Reviews and Comment Resolution		1 fte		720	720	75	54,000			54,000
	Sampling and Analysis Plan Cost										108,000

01/05/99

Page 32 of 49

Project	WAG-5 FS COST ESTIMATES

SOIL SITES: ARA-01, ARA-12, ARA-16, ARA-23, PBF-16, ARA-25 Type of Est. Planning File No. 4951-4 Date

ALTERNATIVE 4B - REMOVAL AND DISPOSAL

OFF INEEL

۲.	DESCRIPTION	E,V,	MAT'L	MAT'L UT.	UNIT/LAB.	TOTAL	LABOR	LABOR	MAT'L	OTHER	TOTAL
		P,H	UNIT	COST	HRS	LAB. HRS.	RATE	COST	COST	COST	COST
	RD Document Preparation (continued)										
	Pre-Final Inspection Report										
	Checklist Preparation		1 fte		40	40	75	3,000			3,000
	Reviews and Comment Resolution		1 fte		60	60	7 <u>5</u>	4,500			4,500
	Pre-Final Inspection Report Cost										7,50
	Remedial Design	<u> </u>									
	Added Institutional Controls - 5 Yr. Review of Deed R	estrictio	ons with Gover	ning Bodies a	nd Public Co	nment. Assur	me a Total of	1 Review.			
	Legal Attorney and Env. Affairs at \$32K ea.		1 ea	32,000			,		32,000		32,000
	Total Added Institutional Controls - (1) 5 Yr. Review				_						32,00
											•
	Title Design Construction Document Package; Conta	minated	Solis Excavat	ion, Handling,	and Off-Site	Disposal	•				
	Remedial Design Workplan		1 fte		320	320	75	24,000			24,00
	Siting and Surveying		3 fte		40	120	40	4,800	·		4,800
	Final Design Construction Document Package		12 dwgs	3,500					42,000		42,000
	Total Title Design Package										70,80
				-4							· <u> </u>
	Site Characterization - Including: Sample Collection	Materials	s/Labor, Shipp	ing, SMO TOS	Preparation	& Analysis Re	porting, ERIS	Quality Report	ng	_	
	Assume a Total Allowance of 100 Samples for all Sites		100 smpls		ž –	400	75	30,000	100,000	500	130,50
										(Materials)	
	Repository WAC Sampling/Analysis: Assume		583 smpls	2,500	4	2,331	75	174,857	1,457,143		1,632,00
	(1) sample per Railcar (70 cy)										the second se
	Site Characterization - Total Cost										1,762,500

Page 33 of 49

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WAG-5 FS COST ESTIMATES

SOIL SITES: ARA-01, ARA-12, ARA-16, ARA-23, PBF-16, ARA-25

ALTERNATIVE 4B - REMOVAL AND DISPOSAL

OFF INEEL

Type of Est. Planning File No. 4951-4 Date 01/05/99

ACCT.	DESCRIPTION	E,V,	MAT'L	MAT'L UT.	UNIT LAB.	TOTAL	LABOR	LABOR	MATL	OTHER	TOTAL
NO.		P,H	UNIT	COST	HRS	LAB. HRS.	RATE	COST	COST	COST	COST
	Remedial Action - Construction Subcontract; Contam	Inated	Solis Excavation	n, Handling, a	nd On-Site D	isposal					
	Mobilization to Job Site		1 Is		24	24	350	8,400			8,400
	Machine Excavate for Waste Removal		50,750 cy		0.1	5,075	350	1,776,250			1,776,250
	Hand Excavate Soils around existing		250 cy		3	750	65	48,750			48,750
	foundations										
	Manual Separation of Vegetation		10,200 cy		0.12	1,224	32	39 <u>,1</u> 68		Equip. Rental	39,168
	Size Vegetation (Assume Open Air Chipper)		10,200 cy		0.25	2,550	32	81,600		20,000	101,600
	Box & Ship to WERF (Assume 90% Reduction)	•	1,020 cy	30	0.20	204	150	30,600	30,600		61,200
	Contour and Shape Excavated Areas	ļ	60 acres	1,500					90,000		90,000
	Haul Soils to ICPP Repository (10 cy/load)		4,080 loads		2	8,160	55	448,800			448,800
	Vegetate Cover		60 acre	2,000					120,000		120,000
	Equipment Cleanup and Demob.		1 ls	5,000	40	40	350	14,000	5,000		19,000
	Total Subcontractor Directs										2,713,168
	Subcontractor Overhead and Profit @ 30%	<u> </u>	<u> </u>					- 		<u> </u>	813,950
	Total Subcontractor Directs and Indirects										3,527,118
	Procurement Fees and G&A at Current Business Prac	21%)				1				629,300	
	Total Subcontractor Costs										4,156,418
	Offsite Disposal Costs		40,800 cy	400					16,320,000		16,320,000
	Total Cost	<u> </u>									20,476,418
		<u> </u>			L						
	Project/Construction Management; Contaminated Soi	is Exc	avation, Handili	ng, and Off-Sit	e Disposal					_	705,424
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Page 34 of 49

Project 1	WAG-5 FS COST ESTIMATES

SOIL SITES: ARA-01, ARA-12, ARA-16, ARA-23, PBF-16, ARA-25 Type of Est. Planning File No. 4951-4 Date 01/05/99

ALTERNATIVE 4B - REMOVAL AND DISPOSAL

OFF INEEL

CT.	DESCRIPTION	E,V,	MAT'L	MAT'L UT.	UNIT LAB.	TOTAL	LABOR	LABOR	MAT'L	OTHER	TOTAL
). <u> </u>		P,H	UNIT	COST	HRS	LAB. HRS.	RATE	COST	COST	COST	COST
	Remedial Action - Operations (100 Year Duration)										
	Program Management	<u> </u>									
	Coordination/Oversight of Technical Support			1							NA
	Coordination with Agency Participants										NA
	Cost and Schedule Control										NA NA
	Ensure Compliance of Gov't Regulation										NA NA
	Reviews										NA NA
4	Audit Preparation and Coordination										NA NA
	Annual Operations & Maintenance Reports										NA NA
	Total Cost (Per Year)				ļ <u> </u>						NA
	Program Management Costs - 100 Year Duration									<u> </u>	NA
	WAG-Wide RA 5 Yr. Review - (Costs are Assum	ed as Part	of the Onsite	Repository A	cceptance Fe	ns)					
	RA Report Preparation		N/A	T							NA NA
	Reviews and Comment Resolution		N/A								NA
	WAG-Wide RA 5 Yr. Reviews										NA
	Remedial Design		· ··-								
	Added Institutional Controls										
	Legal Attorney and Env. Affairs at \$32K ea.		N/A								NA.
	Total Added Institutional Controls - 100 Year Durati	ion									NA
,		1 1			ļ				<u></u>		
				<u> </u>	ļ						
	Caretaker/Maintenance										
	Caretaker		N/A								N/A
	Fencing Maintenance		N/A								N/A
	Materials and Repair		N/A								N/A
	Caretaker/Maintenance Cost Per Year							<u></u>			N/A

Page 35 of 49

OFF INEEL

WAG-5 FS COST ESTIMATES						
SOIL SITES: ARA-01, ARA-12, ARA-16, ARA-23, PBF-16, ARA-25	Type of Est.	Planning	File No.	4951-4	Date	01/05/99
ALTERNATIVE AR - DEMOVAL AND DISPOSAL						

ACCT.	DESCRIPTION	E,V,	MAT'L.	MAT'L UT.	UNIT LAB.	TOTAL	LABOR	LABOR	MAT'L	OTHER	TOTAL
NO.		P,H	UNIT	COST	HRS	LAB, HRS.	RATE	COST	COST	COST	COST
	Operations, Maintenance, Materials and Disposal							··			N/A
									ļ .		
	D&D of Facilities									<u> </u>	N/A
	Surveillance and Monitoring								-		N/A
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Page 36 of 49

Project	WAG-5 FS COST ESTIMATES

SOIL SITES: ARA-01, ARA-12, ARA-16, ARA-23, PBF-16, ARA-25

ALTERNATIVE 5A - REMOVAL, EX SITU TREATMENT, AND

DISPOSAL ON INEEL

 Type of Est.
 Planning
 File No.
 4951-4
 Date
 01/05/99

ACCT.	DESCRIPTION	E,V,	MAT'L	MAT'L UT.	UNIT/LAB.	TOTAL	LABOR	LABOR	MAT'L	OTHER	TOTAL
NQ.		P,H	UNIT	COST	HRS	LAB. HRS.	RATE	COST	COST	COST	COST
	FFA/CO Management and Oversight										
	Program Management				· · · · · · · · · · · · · · · · · · ·						
	Coordination/Oversight of Technical Support		1 fte		640	640	75	48,000			48,000
	Coordination with Agency Participants		1 fte		320	320	75	24,000			24,000
	Cost and Schedule Control	<u> </u>	1 fte		320	320	65	20,800			20,800
	Ensure Compliance of Gov't Regulation		1 fte		160	160	70	11,200			11,200
	Quarterly and Yearly Reviews		1 fte		160	160	65	10,400			10,400
	Audit Preparation and Coordination		1 fte		160	160	65	10,400			10,400
	Total Cost (Per Year)										124,800
	Total Cost (Per Year Rounded)			_					:		125,000
	Program Management - 3 Year Duration		3 yr	125,000					375,000		375,000
	RA Document Preparation										
	RD/RA SOW										
	PreDesign Studies/Preliminary Scoping		3 fte		80	240	75	18,000			18,000
	Design Criteria		1 fte		40	40	75	3,000			3,000
	RD/RA Document Preparation		1 fte		80	80	75	6,000			6,000
	Reviews and Comment Resolution		1 fte		360	360	75	27,000			27,000
	RD/RA SOW Cost										54,000
	RA Workplan				!						
	Preliminary Scoping		1 fte		160	160	75	12,000			12,000
	RD/RA Document Preparation		1 fte		260	260	75	19,500			19,500
	Reviews and Comment Resolution		1 fte		420	420	75	31,500			31,500
	RA Workplan Cost										63,000
			<u>-</u>			•					

Page 37 of 49

Project

WAG-5 FS COST ESTIMATES

SOIL SITES: ARA-01, ARA-12, ARA-16, ARA-23, PBF-16, ARA-25

ALTERNATIVE 5A - REMOVAL, EX SITU TREATMENT, AND

DISPOSAL ON INEEL

 Type of Est.
 Planning
 File No.
 4951-4
 Date
 01/05/99

ACCT.	DESCRIPTION	E,V,	MAT'L	MAT'L UT.	UNIT/LAB.	TOTAL	LABOR	LABOR	MAT'L	OTHER	TOTAL
NO.		P,H	UNIT	COST	HRS	LAB. HRS.	RATE	COST	COST	COST	COST
	RA Document Preparation (cont)										
	Packaging, Shipping, Transportation Documenta	tion									
	Sampling and Analysis		1 fte		240	240	75	18,000			18,000
	Hazard Classification		1 fte		200	200	75	15,000			15,000
	Selection and Procurement of Packaging		1 fte		200	200	75	15,000			15,000
	Packaging, Shipping, Transportation Documenta	tion Co	st								48,000
	Remedial Action Report										
	RA Report Preparation		1 fte		320	320	75	24,000			24,000
	Reviews and Comment Resolution		1 fte	-	320	320	75	24,000			24,000
	RA Report Cost										48,000
	WAG-Wide RA 5 Yr. Review - (Cost Includes (1) F	TE For	(1) yr for the In	itial Review							
	RA Report Preparation		1 yr		1,440	1,440	75	108,000			108,000
	Reviews and Comment Resolution		1 yr		440	440	75	33,000			33,000
	WAG-Wide RA 5 Yr. Reviews										141,000
-	RD Document Preparation										
	Safety Analysis Documentation (ASA & HSP)										
	Auditable Safety Analysis/Hazs. Classification		2 fte		160	320	75	24,000			24,000
	Unresolved Safety Questions		2 fte		160	320	75	24,000			24,000
	Quality Assurance		1 fte		30	30	75	2,250			2,250
	Review and Comment Resolution		2 fte		335	670	75	50,250			50,250
	Safety Analysis Documentation Cost										100,500
	Sampling and Analysis Plan							<u></u>			
	Preliminary Scoping		1 fte		320	320	75	24,000			24,000
	Field Sampling Plan Preparation		1 fte		400	400	75	30,000			30,000
-	Reviews and Comment Resolution		1 fte		720	720	75	54,000			54,000
	Sampling and Analysis Plan Cost										108,000

Page 38 of 49

Project	WAG-5 FS COST ESTIMATES

SOIL SITES: ARA-01, ARA-12, ARA-16, ARA-23, PBF-16, ARA-25 Type of Est. Planning File No. 4951-4 Date 01/05/99

ALTERNATIVE 5A - REMOVAL, EX SITU TREATMENT, AND

CT.	DESCRIPTION	E,V,	MAT'L	MAT'L UT.	UNIT/LAB.	TOTAL	LABOR	LABOR	MAT'L	OTHER	TOTAL
) <u>. </u>		P,H	UNIT	COST	HRS	LAB. HRS.	RATE	COST	COST	COST	COST
	RD Document Preparation (continued)					·					
	Pre-Final Inspection Report										
	Checklist Preparation		1 fte		40	40	75	3,000			3,000
	Reviews and Comment Resolution		1 fte		60	50	75	4,500			4,500
	Pre-Final Inspection Report Cost										7,500
	Remedial Design			·	15 18:0:			4.8			
	Added Institutional Controls - 5 Yr. Review of Deed R	testrictio		1	na Public Col	mment. Assur	ne a Total of	1 Heview.		 	
	Legal Attorney and Env. Affairs at \$32K ea.	<u>i 1</u>	1 <u>e</u> a	32,000					32,000	<u> </u>	32,000
	Total Added Institutional Controls - (1) 5 Yr. Review	1 1									32,000
	Title Design Construction Document Package; Conta	minated	i Soils Excavati	ion, Handling,	and On-Site	Disposal					
	Remedial Design Workplan		1 fte		320	320	75	24,000			24,000
	Siting and Surveying		3 fte		40	120	40	4,800			4,800
	Final Design Construction Document Package		100 dwgs	3,500					350,000		350,000
	Total Title Design Package				-1001						378,800
	Site Characterization - Including: Sample Collection	Material	s/Labor, Shippi	ng, SMO TOS	Preparation (& Analysis Rep	porting, ERIS	Quality Reporti	ng		
	Assume a Total Allowance of 100 Samples for all Sites		100 smpls	1,000	4	400	75	30,000	100,000	500	130,500
										(Materials)	
	Repository WAC Sampling/Analysis: Assume		204 smpis	2,500	4	816	75	61,200	510,000		571,200
	(1) sample per 100 cy										
	Site Characterization - Total Cost										701,700

Planning

Page 39 of 49

Project	WAG-5	FS COST	ESTIMATES

SOIL SITES: ARA-01, ARA-12, ARA-16, ARA-23, PBF-16, ARA-25

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Type of Est.

File No.

4951-4

Date

01/05/99

ALTERNATIVE 5A - REMOVAL, EX SITU TREATMENT, AND DISPOSAL ON INEEL

ACCT.	DESCRIPTION	E,V,	MAT'L	MAT'L UT.	UNIT LAB.	TOTAL	LABOR	LABOR	MAT'L	OTHER	TOTAL
NO.		P,H	UNIT	COST	HRS	LAB. HRS.	RATE	COST	COST	COST	COST
	Remedial Action - Construction Subcontract; Contam	inated	Soils Excavation	n, Handling, a	nd On-Site D	isposal					
	Mobilization to Job Site		1 is		24	24	350	8,400		<u> </u>	8,400
	Machine Excavate for Waste Removal		50,750 cy		0.1	5,075	350	1,776,250			1,776,250
	Hand Excavate Soils around existing		250 cy		3	750	65	48,750	· · · · · · · · · · · · · · · · · · ·	<u> </u>	48,750
	foundations	<u> </u>									
	Manual Separation of Vegetation		10,200 cy		0.12	1,224	32	39,168		Equip. Rental	39,168
	Size Vegetation (Assume Open Air Chipper)		10,200 cy	<u> </u>	0.25	2,550	32	81,600		20,000	101,600
	Box & Ship to WERF (Assume 90% Reduction)		1,020 cy	30	0.20	204	150	30,600	30,600	<u> </u>	61,200
	Contour and Shape Excavated Areas	<u> </u>	60 acres	1,500					90,000		90,000
	Haul Soils to SGS and to Repository	<u> </u>	2,040 loads	•	2	4,080	55	224,400			224,400
	Haul Soils to SGS and Back to Site		2,040 loads		1	2,040	55	112,200			112,200
L	Vegetate Cover		60 acre	2,000					120,000		120,000
	Equipment Cleanup and Demob.	<u> </u>	1 ls	5,000	40	40	350	14,000	5,000		19,000
	Total Subcontractor Directs										2,600,968
	Subcontractor Overhead and Profit @ 30%	<u> </u>					-			<u> </u>	780,290
	Total Subcontractor Directs and Indirects	<u> </u>									3,381,258
						4					
	Segregated Gate System (SGS):										
	Mobilization/Demobilization		2 sys	75,000					150,000		150,000
	Processing SGS		40,800 cy	75					3,060,000		3,060,000
	Segregated Gate System Directs and Indirects			****							3,210,000

Planning

File No.

4951-4

Date

01/05/99

Type of Est.

Page 40 of 49

Project	WAG-5 FS	COST	ESTIMATES
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SOIL SITES: ARA-01, ARA-12, ARA-16, ARA-23, PBF-16, ARA-25

ALTERNATIVE 5A - REMOVAL, EX SITU TREATMENT, AND

CCT.	DESCRIPTION	E,V,	MAT'L	MAT'L UT.	UNIT LAB.	TOTAL	LABOR	LABOR	MAT'L	OTHER	TOTAL
NQ.		P.H	UNIT	COST	HRS	LAB. HRS.	RATE	COST	COST	COST	COST
	Remedial Action - Construction Subcontract; Contam	Inated	Soils Excavati	on, Handling, a	nd On-Site D	Isposal					
	Segregated Gate System (SGS) Support										
	Soil Receiver/Hopper, Grizzly, Sizing/Separator/Feed S	ys.	2 sys	375,000	included				750,000		750,000
	Personnel for Processing to Feed SGS		40,800 cy	<u> </u>	0.120	4,896	160	783,360			783,360
	Additional Electrical										
	Switchgear		1 is	50,000	Included				50,000		50,000
	Generator Set		1 is	50,000	Included				50,000		50,000
	Mobilization/Demobilization		1 ls	10,000	Included			-	10,000		10,000
	Total Subcontractor (SGS) Directs & Indirects	l									1,643,360
	Subcontractor Overhead and Profit @ 30%	<u> </u>									493,008
	Total Subcontractor Directs and Indirects										2,136,368
	Total Subcontractors Directs and Indirects (Pages 39	Total Subcontractors Directs and Indirects (Pages 39 & 40)				,					8,727,626
	Procurement Fees and G&A at Current Business Prac	tices									1,658,249
	Total Subcontractor Costs										10,385,875
	ICPP Disposal Fee	<u> </u>	20,400 cy	104					2,121,600		2,121,600
	Total Cost			ļ							12,507,475
	Project/Construction Management; Contaminated Soi	le Exc	avation, Handli	ng, and On-Sit	e Disposal						1,745,525

Page 41 of 49

Project	WAG-5 FS COST ESTIMATES

SOIL SITES: ARA-01, ARA-12, ARA-16, ARA-23, PBF-16, ARA-25

Type of Est. Planning

File No. 4951-4

01/05/99

Date

ALTERNATIVE 5A - REMOVAL, EX SITU TREATMENT, AND

CCT.	DESCRIPTION	E.V.	MAT'L	MAT'L UT.	UNIT LAB.	TOTAL	LABOR	LABOR	MAT'L	OTHER	TOTAL
NO.		P,H	UNIT	COST	HRS	LAB. HRS.	RATE	COST	COST	COST	COST
	Remedial Action - Operations (100 Year Duration)										
	Program Management										
	Coordination/Oversight of Technical Support										NA
	Coordination with Agency Participants							-			NA
	Cost and Schedule Control										NA
	Ensure Compliance of Gov't Regulation		•••								NA
	Reviews										NA
	Audit Preparation and Coordination										NA NA
	Annual Operations & Maintenance Reports				<u> </u>						NA NA
	Total Cost (Per Year)		_	*.							NA
	Program Management Costs - 100 Year Duration	_		ļ			<u></u>				NA
	WAG-Wide RA 5 Yr. Review - (Costs are Assume	ed as Part	of the Onsite	Repository A	ceptance Fe)					
	RA Report Preparation		N/A			•					NA
	Reviews and Comment Resolution		N/A								NA
	WAG-Wide RA 5 Yr. Reviews For 100 Years										NA
	Remedial Design					-					
	Added Institutional Controls										
	Legal Attorney and Env. Affairs at \$32K ea.		N/A								NA NA
	Total Added institutional Controls - 100 Year Duration	on									NA
	Caretaker/Maintenance	+		+					 		
	Caretaker	+ +	N/A				l	<u></u>			N/A
	Fencing Maintenance	+ +	N/A		ļ						N/A
	Materials and Repair		N/A _		1						N/A
	Caretaker/Maintenance Cost Per Year			ļ							N/A

Page 42 of 49

WAG-5 FS COST ESTIMATES

SOIL SITES: ARA-01, ARA-12, ARA-16, ARA-23, PBF-16, ARA-25

ALTERNATIVE 5A - REMOVAL, EX SITU TREATMENT, AND

Type of Est.	Planning	File No.	4951-4	Date	01/05/99

ACCT.	DESCRIPTION	E.V.		MAT'L UT.	UNIT LAB.	TOTAL	LABOR	LABOR	MAT'L	OTHER	TOTAL
NO.		P.H	UNIT	COST	HRS	LAB. HRS.	RATE	COST	COST	COST	COST
	Operations, Maintenance, Materials and Disposal										N/A
	D&D of Facilities										N/A
	Surveillance and Monitoring	· · · · ·									N/A
		<u> </u>									
				 					 		
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	<u> </u>			-						 	
										 	
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Page 43 of 49

Project	WAG-5 FS	COST	ESTIM	ATES

SOIL SITES: ARA-01, ARA-12, ARA-16, ARA-23, PBF-16, ARA-25

ALTERNATIVE 5B - REMOVAL, EX SITU TREATMENT, AND

DISPOSAL OFF INEEL

 Type of Est.
 Planning
 File No.
 4951-4
 Date
 01/05/99

ACCT.	DESCRIPTION	E,V,	MAT'L	MAT'L UT.	UNITILAB.	TOTAL	LABOR	LABOR	MAT'L	OTHER	TOTAL
NO.		P,H	UNIT	COST	HRS	LAB. HRS.	RATE	COST	COST	COST	COST
	FFA/CO Management and Oversight										
	Program Management									<u> </u>	
	Coordination/Oversight of Technical Support		1 fte		640	640	75	48,000			48,000
	Coordination with Agency Participants		1 fte		320	320	75	24,000			24,000
	Cost and Schedule Control		1 fte		320	320	65	20,800			20,800
	Ensure Compliance of Gov't Regulation		1 fte		160	160	70	11,200			11,200
	Quarterly and Yearly Reviews		1 fte		160	160	65	10,400			10,400
	Audit Preparation and Coordination		1 fte		160	160	65	10,400			10,400
	Total Cost (Per Year)										124,800
	Total Cost (Per Year Rounded)			_	<u>.</u>						125,000
	Program Management - 3 Year Duration		3 yr	125,000					375,000		375,000
	RA Document Preparation									, , , , , , , , , , , , , , , , , , ,	
	RD/RA SOW										
	PreDesign Studies/Preliminary Scoping		3 fte		80	240	75	18,000			18,000
	Design Criteria		1 fte		40	40	75	3,000			3,000
	RD/RA Document Preparation		1 fte		80	80	75	6,000			6,000
	Reviews and Comment Resolution		1 fte	-	360	360	75	27,000			27,000
	RD/RA SOW Cost		1 116		300	300	73	27,000			54,000
	RA Workplan										
	Preliminary Scoping		1 fte		160	160	75	12,000			12,000
	RD/RA Document Preparation		1 fte		260	260	75	19,500			19,500
	Reviews and Comment Resolution		1 fte		420	420	75	31,500			31,500
	RA Workplan Cost										63,000

Page 44 of 49

Pro	ect

WAG-5 FS COST ESTIMATES

SOIL SITES: ARA-01, ARA-12, ARA-16, ARA-23, PBF-16, ARA-25

Type of Est. Planning

File No. 4951-4

Date

01/05/99

ALTERNATIVE 5B - REMOVAL, EX SITU TREATMENT, AND DISPOSAL OFF INEEL

ACCT.	DESCRIPTION	E,V,	MAT'L	MAT'L UT.	UNIT/LAB.	TOTAL	LABOR	LABOR	MAT'L	OTHER	TOTAL
NO.		P,H	UNIT	COST	HRS	LAB, HRS.	RATE	COST	COST	COST	COST
	RA Document Preparation (cont)										
	Packaging, Shipping, Transportation Docume	ntation									
	Sampling and Analysis		1 fte		240	240	75	18,000			18,000
	Hazard Classification		1 fte		200	200	75	15,000			15,000
	Selection and Procurement of Packaging		1 fte	1	200	200	75	15,000			15,000
	Packaging, Shipping, Transportation Docume	ntation Cos	<u>t</u>	<u> </u>						_	48,000
	Remedial Action Report										
	RA Report Preparation		1 fte		320	320	75	24,000			24,000
	Reviews and Comment Resolution		1 fte	,	320	320	75	24,000			24,000
	RA Report Cost										48,00
	WAG-Wide RA 5 Yr. Review - (Cost includes (1	I) FTE For (1) yr for the Ir	itial Review							
	RA Report Preparation		1 yr		1,440	1,440	75	108,000			108,00
	Reviews and Comment Resolution		1 yr		440	440	75	33,000			33,00
	WAG-Wide RA 5 Yr. Reviews	1							· · · · · · · · · · · · · · · · · · ·		141,00
	RD Document Preparation										
	Safety Analysis Documentation (ASA & HSP)										
	Auditable Safety Analysis/Hazards Classificat	tion	2 fte		160	320	75	24,000			24,00
	Unresolved Safety Questions		2 fte		160	320	75	24,000			24,00
	Quality Assurance		1 fte		30	30	75	2,250			2,25
	Review and Comments Resolution		2 fte		335	670	75	50,250			50,25
	Safety Analysis Documentation Cost									-	100,50
	Sampling and Analysis Plan										
	Preliminary Scoping		1 fte		320	320	75	24,000			24,000
	Field Sampling Plan Preparation		1 fte		400	400	75	30,000			30,00
	Reviews and Comment Resolution		1 fte		720	720	75	54,000			54,000
	Sampling and Analysis Plan Cost										108,000

Page 45 of 49

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WAG-5 FS COST ESTIMATES

SOIL SITES: ARA-01, ARA-12, ARA-16, ARA-23, PBF-16, ARA-25

ALTERNATIVE 5B - REMOVAL, EX SITU TREATMENT, AND

Type of Est. Planning

File No. 4951-4

Date

01/05/99

:	DESCRIPTION	E,V,	MAT'L	MAT'L UT.	UNIT/LAB.	TOTAL	LABOR	LABOR	MAT'L	OTHER	TOTAL
		P,H	UNIT	COST	HRS	LAB, HRS.	RATE	COST	COST	COST	COST
	RD Document Preparation (continued)										
	Pre-Final Inspection Report										
	Checklist Preparation		1 fte	· · · · · · · · · · · · · · · · · · ·	40	40	75	3,000	<u></u>		3,00
	Reviews and Comment Resolution	<u> </u>	1 fte		60	60	75	4,500			4,50
	Pre-Final Inspection Report Cost										7,5
	1			· · · · · · · · · · · · · · · · · · ·							
	Remedial Design										
	Added Institutional Controls - 5 Yr. Review of Deed R	estricti				mment. Assur	ne a Total of	1 Review.			
	Legal Attorney and Env. Affairs at \$32K ea.	<u> </u>	1 ea	32,000					32,000		32,0
	Total Added Institutional Controls - (1) 5 Yr. Review									-	32,0
	· · · · · · · · · · · · · · · · · · ·										
										<u> </u>	
	Title Design Construction Document Package; Conta	minated		ion, Handling,							
	Remedial Design Workplan	 	1 fte		320	320	75	 	-	-	24,0
	Siting and Surveying	ļ	3 fte		40	120	40	4,800			4,8
	Final Design Construction Document Package		100 dwgs	3,500					350,000		350,0
	Total Title Design Package									-	378,8
		 									
	Site Characterization - including: Sample Collection	Material	ls/Labor, Shippi	ing, SMO TOS	Preparation ·	& Analysis Rej	oorting, ERIS	Quality Reporti	ng		
	Assume a Total Allowance of 100 Samples for all Sites		100 smpls	1,000		400	75	1 1	100,000	500	130,5
										(Materials)	
	Repository WAC Sampling/Analysis: Assume		291 smpls	2,500	4	1,166	75	87,429	728,571		816,0
	(1) sample per Railcar (70 cy)			,							
	Site Characterization - Total Cost										946,5

Page 46 of 49

Project	WA

WAG-5 FS COST ESTIMATES

SOIL SITES: ARA-01, ARA-12, ARA-16, ARA-23, PBF-16, ARA-25

ALTERNATIVE 5B - REMOVAL, EX SITU TREATMENT, AND

 Type of Est.	Planning	File No.	4951-4	_ Date	01/05/99
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ACCT.	DESCRIPTION	E,V,	MAT'L	MAT'L UT.	UNIT/LAB.	TOTAL	LABOR	LABOR	MATL	OTHER	TOTAL
NO.		P,H	UNIT	COST	HRS	LAB. HRS.	RATE	cost	COST	COST	COST
	Remedial Action - Construction Subcontract; Contam	inated	Solls Excavation	n, Handling, a	nd On-Site D	isposal					
	Mobilization to Job Site		1 is		24	24	350	8,400			8,400
	Machine Excavate for Waste Removal		50,750 cy		0.1	5,075	350	1,776,250			1,776,250
	Hand Excavate Soils around existing		250 cy		3	750	65	48,750	-2-1		48,750
	foundations							<u>.</u>			
	Manual Separation of Vegetation		10,200 cy		0.12	1,224	32	39,168		Equip. Rental	39,168
	Size Vegetation (Assume Open Air Chipper)		10,200 cy		0.25	2,550	32	81,600		20,000	101,600
	Box & Ship to WERF (Assume 90% Reduction)		1,020 cy	30	0.20	204	150	30,600	30,600		61,200
	Contour and Shape Excavated Areas		60 acres	1,500					90,000		90,000
	Haul Soils to SGS and to Repository		2,040 loads	•	2	4,080	55	224,400			224,400
	Haul Soils to SGS and Back to Site		2,040 loads		1	2,040	55	112,200			112,200
	Vegetate Cover		60 acre	2,000					120,000	<u> </u>	120,000
	Equipment Cleanup and Demob.		1 ls	5,000	40	40	350	14,000	5,000		19,000
	Total Subcontractor Directs										2,600,968
	Subcontractor Overhead and Profit @ 30%										780,290
	Total Subcontractor Directs and Indirects										3,381,258
-	Segregated Gate System (SGS):					•					-
	Mobilization/Demobilization		2 sys	75,000			-		150,000		150,000
	Processing SGS		40,800 cy	75					3,060,000		3,060,000
	Segregated Gate System Directs and Indirects										3,210,000
		<u> </u>									
								······································			

Planning

File No.

4951-4

Date

01/05/99

Type of Est.

Page 47 of 49

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WAG-5 FS COST ESTIMATES

SOIL SITES: ARA-01, ARA-12, ARA-16, ARA-23, PBF-16, ARA-25

ALTERNATIVE 5B - REMOVAL, EX SITU TREATMENT, AND

	*	,			,						
ACCT.	DESCRIPTION	E,V,	MAT'L	MAT'L UT.	UNIT LAB.	TOTAL	LABOR	LABOR	MAT'L	OTHER	TOTAL
NO.		P,H	UNIT	COST	HRS	LAB. HRS.	RATE	COST	COST	COST	COST
	Remedial Action - Construction Subcontract; Contaminated Solls Excavation, Handling, and On-Site Disposal										
	Segregated Gate System (SGS) Support										- · · · · · · · · · · · · · · · · · · ·
	Soil Receiver/Hopper, Grizzly, Sizing/Separator/Feed	Sys.	2 sys	375,000	Included				750,000		750,000
	Personnel for Processing to Feed SGS		40,800 cy		0.120	4,896	160	783,360			783,360
	Additional Electrical										
	Switchgear		1 ls	50,000	Included				50,000		50,000
	Generator Set		1 is	50,000	Included				50,000		50,000
	Mobilization/Demobilization	-	1 ls	10,000	Included				10,000		10,000
	Total Subcontractor (SGS) Directs & Indirects										1,643,360
	Subcontractor Overhead and Profit @ 30%										493,008
	Total Subcontractor Directs and Indirects										2,136,368
	Total Subcontractors Directs and Indirects										8,727,626
	Procurement Fees and G&A at Current Business Pract	il	L.,								
	Total Subcontractor Costs	LICAS	<u> </u>								1,658,249
			20,400 cy	400					8,160,000	-	10,385,875
	Offisite Disposoal Costs Total Cost		20,400 cy	400				<u> </u>	8,160,000		8,160,000 18,545,875
	Project/Construction Management; Contaminated Soils Excavation, Handling, and On-Site Disposal										1,745,525
	+										
			ĺ						<u>-</u>		

Page 48 of 49

Project	WAG

WAG-6 FS COST ESTIMATES						
SOIL SITES: ARA-01, ARA-12, ARA-16, ARA-23, PBF-16, ARA-25	Type of Est.	Planning	File No.	4951-4	Date	01/05/99
ALTERNATIVE 5B - REMOVAL, EX SITU TREATMENT, AND	,					
DISPOSAL OFF INEEL						

CT.	DESCRIPTION	E,V,	MAT'L	MAT'L UT.	UNIT LAB.	TOTAL	LABOR	LABOR	MAT'L	OTHER	TOTAL
0.		P.H	UNIT	COST	HRS	LAB, HRS.	RATE	COST	COST	COST	COST
	Remedial Action - Operations (100 Year Duration)										
	Program Management										
	Coordination/Oversight of Technical Support										NA
	Coordination with Agency Participants										NA
	Cost and Schedule Control										NA
	Ensure Compliance of Gov't Regulation										NA
	Reviews										NA NA
·····-	Audit Preparation and Coordination										NA
	Annual Operations & Maintenance Reports			<u> </u>							NANA
	Total Cost (Per Year)										NA
	Program Management Costs - 100 Year Duration	, 									NA
	WAG-Wide RA 5 Yr. Review - (Costs are Assum	ed as Part	of the Onsite	Repository A	ceptance Fe	es)					
	RA Report Preparation		N/A	<u> </u>							NA
	Reviews and Comment Resolution		N/A								NA NA
	WAG-Wide RA 5 Yr. Reviews For 100 Years										NA NA
	Remedial Design										
	Added Institutional Controls										
	Legal Attorney and Env. Affairs at \$32K ea.		N/A							<u> </u>	NA
Total Added Institutional Controls - 100 Year Duration											NA
				1							
	Caretaker/Maintenance										
	Caretaker	+ +	N/A	+				l		-	N/A
		+ +	N/A							 	N/A
	Fencing Maintenance	+ +	N/A					L	<u>-</u>		N/A
	Materials and Repair Caretaker/Maintenance Cost Per Year	-	IVA	 							N/A